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(FILE 'HOME' ENTERED AT 20:04:09 ON 23 MAY 2005)

FILE 'CAPLUS' ENTERED AT 20:04:23 ON 23 MAY 2005
L1 245710 S ACRYLIC
L2 3 S L1 AND WATER AND ABSORPTION AND PROPYLENE AND "FLOW RATE"

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L2 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1984:631662 CAPLUS
DN 101:231662
TI Polyamide blends
PA Mitsui Petrochemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59135252	A2	19840803	JP 1983-9330	19830125
	JP 03068902	B4	19911030		
PRAI	JP 1983-9330		19830125		

AB A polyamide molding composition giving a product with improved low-temperature impact resistance and low **water absorption** contains 1-100 parts (per 100 parts polyamide) ethylene copolymer with vinyl acetate or (meth)**acrylic** acid (or its salt or ester) which is grafted with 0.01-10 phr unsatd. carboxylic acid (or its derivative) with melt **flow rate** (MFR) 1-50 g/10 min at 190° and 2.16-kg load and 1-100 parts α-olefin-based elastomer with degree of crystallinity ≤40% and MFR 0.01-100 g/10 min. Thus, a blend (MFR 4.5 g/10 min) of Amilan CM 1021 XF (I) [25038-54-4] (MFR 3.74 g/10 min) 100, 94.0:2.3:3.7 mol ratio ethylene-iso-Bu methacrylate-methacrylic acid copolymer grafted with 0.5 phr maleic anhydride (MFR 17 g/10 min) 12.5, and 8:2 mol ratio ethylene-**propylene** rubber (MFR 0.8 g/10 min, degree of crystallinity 15%) 12.5 parts was injection-molded at 260° to give a sample (thickness 1/8 in.) exhibiting flexural modulus 18,800 kg/cm2, flexural strength 650 kg/cm2, notched Izod impact strength 11.1 kg-cm/cm at -40°, and **water absorption** 4.0% after 48 h of immersion in 50° **water**, compared with 26,500 kg/cm2, 990 kg/cm2, 2.2 kg-cm/cm, and 8.7%, resp., for I only.

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1984:631660 CAPLUS
DN 101:231660
TI Polyamide blends
PA Mitsui Petrochemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59136346	A2	19840804	JP 1983-10531	19830127
	JP 04014141	B4	19920311		
PRAI	JP 1983-10531		19830127		

AB A polyamide molding composition giving a product with improved low-temperature impact

resistance, low **water absorption**, and high gloss, contains 1-100 parts (per 100 parts polyamide) **propylene**-α-olefin copolymer grafted with 0.01-10 phr unsatd. carboxylic acid (or its derivative) with degree of crystallinity ≤40% and intrinsic viscosity 0.3-7 dL/g in Decalin at 135° and 1-100 parts ethylene copolymer with vinyl acetate or (meth)**acrylic** acid (or its salt or ester) with melt **flow rate** (MFR) 0.01-100 g/10 min at 190° and 2.16-kg load. Thus, a blend (MFR 1.20 g/10 min) of Amilan CM 1021 XF (I) [25038-54-4] (MFR 3.74 g/10 min) 100, 4:6 ethylene-**propylene** copolymer grafted with 0.4 phr maleic acid (degree of crystallinity 5%, intrinsic viscosity 1.50 d/L/g) 12.5, and 93.7:6.3 mol ratio ethylene-vinyl acetate copolymer [24937-78-8] (MFR 4.5 g/10 min, degree of crystallinity 40%) 12.5 parts was injection-molded at 260° to give a sample (thickness 1/8 in.) exhibiting flexural modulus 20,500 kg/cm2, flexural strength 663 kg/cm2, notched Izod impact strength 12.8 kg-cm/cm at -40°, and **water absorption** 3.9% after 48 h of immersion in 50° **water**, compared with 26,500 kg/cm2, 991 kg/cm2, 2.2 kg-cm/cm, and 8.7%, resp., with high gloss, for I only.

L2 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1984:631659 CAPLUS
DN 101:231659
TI Polyamide blends
PA Mitsui Petrochemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59136345	A2	19840804	JP 1983-10530	19830127
	JP 04014140	B4	19920311		
PRAI	JP 1983-10530		19830127		

AB A polyamide molding composition giving a product with improved low-temperature impact resistance and low **water absorption**, contains 1-100 parts (per 100 parts polyamide) ethylene-α-olefin-diene elastomer grafted with 0.01-10 phr unsatd. carboxylic acid (or its derivative) with degree of crystallinity ≤40% and melt **flow rate** (MFR) 0.01-50 g/10 min at 190° and 2.16-kg load and 1-100 parts ethylene copolymer with vinyl acetate or (methyl)**acrylic** acid (or its salt or ester) with MFR 0.01-100 g/10 min. Thus, a blend (MFR 1.6 g/10 min) of Amilan CM 1021 XF (I) [25038-54-4] (MFR 3.74 g/10 min) 100, 61.0:2.3:36.7 mol ratio ethylene-5-ethylidene-2-norbornene-**propylene** elastomer grafted with 0.5 phr maleic anhydride (MFR 0.85 g/10 min, degree of crystallinity 10%) 12.5, and 93.7:6.3 mol ratio ethylene-vinyl acetate copolymer [24937-78-8] (MFR 4.5 g/10 min, degree of crystallinity 40%) 12.5 parts was injection molded at 260° to give a sample (thickness 1/8 in.) exhibiting flexural modulus 17,100 kg/cm2, flexural strength 620 kg/cm2, notched Izod impact strength 15.8 kg-cm/cm at -40°, and **water absorption** 4.0% after 48 h of immersion in 50° **water**, compared with 26,500 kg/cm2, 990 kg/cm2, 2.2 kg-cm/cm, and 8.7%, resp., for I only.

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	Type	L #	Hits	Search Text	DBs
1	BRS	L1	417068	acrylic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT
2	BRS	L2	10	l1 and (propylene with water with "flow rate")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT
3	BRS	L3	1	"20040030185"	DERWENT
4	BRS	L4	1	US-6384274-$.DID.	USPAT
5	BRS	L5	1	"20040225152"	DERWENT
6	BRS	L6	0	2001/0021788	US-PGPUB; USPAT
7	BRS	L7	0	2001/00021788	US-PGPUB; USPAT
8	BRS	L8	1	"20010021788"	US-PGPUB; USPAT

	Time Stamp	Comments	Error Definition	Errors
1	2005/05/23 20:06			
2	2005/05/23 20:25			
3	2005/05/23 20:16			
4	2005/05/23 20:45			
5	2005/05/23 20:25			
6	2005/05/23 20:46			
7	2005/05/23 20:46			
8	2005/05/23 20:46			